

**EXHIBIT "D"****TASK ORDER**Task Order No. 1Agreement: CT504Consultant: Quincy Engineering, Inc.

**The Consultant is hereby authorized to perform the following services subject to the provisions of the Agreement identified above:**

Provide Independent Design Review for Interstate 680/State Route 4, Phases 1, 2A, and 4 (Project 6001) as per attached Scope-of-Services.

Sub-tasks will be issued for each Review Checklist Deliverable submittal listed in the Scope-of-Services.

**List any attachments:** (Please provide if any.)

Attachment A - Scope-of-Services

**Dollar Amount of Task Order:** Not-to-exceed \$175,000.00

**Start Date:** 12/15/2021      **Completion Date:** 12/31/2024

The undersigned Consultant hereby agrees that it will provide all equipment, furnish all materials, except as may be otherwise noted above, and perform all services for the work above specified in accordance with the Agreement identified above and will accept as full payment therefore the amount shown above.

**CONTRA COSTA TRANSPORTATION  
AUTHORITY**

**QUINCY ENGINEERING, INC.**

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

Teresa Gerringer, Chair

## Attachment A

### Scope-of-Services: Design Review Consultant I-680/SR4 Interchange Project

As requested, and authorized by the Contra Costa Transportation Authority (CCTA) Project Manager, the independent Design Review Consultant (DRC) will provide assistance in implementing design quality reviews and compliance activities on submitted work products from Design Consultants during the design development process. These reviews are generally conducted by CCTA's on-call consultant staff through the existing, or future, on-call contracts with engineering, environmental, or Right-of-Way firms. This scope-of-services provides a generalized scope of services covering engineering reviews as requested by CCTA through individual task order authorizations.

Design reviews and compliance activities will be performed during Design Progress Milestones for submittals based on the Design Consultant's approved project schedule or upon request by CCTA for specific review of design deliverables. These activities include reviewing and providing comments on Design Consultant's Submittal Package including but not limited to:

- Engineering Technical Reports
- Project Plans including but not limited to:
  - Roadway Typical Sections
  - Roadway Layouts
  - Drainage Plans/Profiles
  - Sign Plans and Details
  - Pavement Delineation
  - Construction Staging/Detours
  - Structure Plans and Details
- Identified Construction Pay Items
- Utility Conflicts/Utility Relocation Plans
- Comparison of Specifications vs. Pay Items
- Construction Estimates, Unit Pricing, & Proposed Escalation
- Review of Proposed Working Day Estimates
- Review other Design Deliverables as Directed

All work performed by DRC will be authorized by Task Order. Deliverables include redline markups to plans, reports and other technical documents, as well as and comments identifying corrective actions. These comments will be summarized in a comment resolution form which could be responded to by author of documents. Our understanding is the approximate number of plan sheets for design progress reviews would be approximately 725 roadway sheets and 375 bridge sheets.

## 1. Reviews and Design Progress Milestones

### Review Checklist

	Key Progress Milestone	Design Review Tasks and Deliverables	Approximate Duration (working days)
1	35% Design Progress Milestone	Workshop, redlines, and comments	10

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	<b>Key Progress Milestone</b>	<b>Design Review Tasks and Deliverables</b>	<b>Approximate Duration (working days)</b>
2	65% Design Progress Milestone	Redlines and comments	15
3	95% Design Progress Milestone	Review plans, estimates, and bid items	15
4	Type Selection	Review Bridge Type Selection Report providing redlines, comments, and recommendations	10
5	Foundation Report	Redline and comments on Foundation Report	7
6	Environmental Document Revalidation	Redlines and comments, and Report with recommendations	7
7	Constructability / Biddability Review	Review Final Design plans, engineers' estimates, bid items, draft bid package	15
8	Utility Conflict Reviews	Review utility reports of investigation, utility conflict mapping, relocation plans, and utility agreements	10
9	Right of Way Reviews	Review proposed right-of-way requirements, easements, and access control	10

- 1.1. Formal Reviews will be conducted for key progress milestone submittals, listed in the table above. All documents that will be submitted to Caltrans and Federal regulatory agencies will be formally reviewed by the DRC.
- 1.2. Constructability / Biddability Reviews conducted prior to the start of construction of the project after the 65% and prior to advertisement of the Plans, Specifications, and Estimates (PS&E) package submitted by the Design Consultant
- 1.3. DRC may recommend that other design quality reviews (listed below) be conducted on a case-by-case basis. DRC would prepare a task order scope identifying specific items to be reviewed such as reports and/or other deliverables, a schedule will be included with the task order scope identifying time frames for review activities, meetings if any, milestone due dates and a cost proposal for performing the work identified. The DRC will submit the task order scope, schedule, and cost proposal to CCTA for review and comment. DRC will address any comments from CCTA and submit the final task order package for CCTA to approve and issue an authorization to proceed
  - 1.3.1. Peer Reviews/Project Review Workshops to be conducted as requested and authorized by the CCTA Project Manager.
  - 1.3.2. Constructability/Biddability Review will be conducted as requested and authorized by the CCTA Project Manager.
  - 1.3.3. Independent Cost Estimate based on historical costs will be conducted as requested and authorized by the CCTA Project Manager.

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- 1.3.4. Independent Review and Verification will be conducted as requested and authorized by the CCTA Project Manager.
- 1.3.5. Surface and Subsurface Investigations will be conducted by the Design Consultant as requested and authorized by the CCTA Project Manager based on recommendations from the DRC based on their review/finding of conflicts. Our reviews would be limited to potholing plans for positive utility identification and potentially review of proposed geotechnical field exploration plans for adequacy in obtaining required design data.

## 2. Design Quality Reviews and Compliance Activities

### 2.1 Peer Reviews/Project Review Workshops

Peer Reviews and/or project design workshops may be performed based on the scope and complexity of the design to review the proposed approach, suitability, completeness, accuracy, consistency with standards, and adherence to sound engineering practices. This procedure is required to ensure the quality and adequacy of engineering design, environmental studies, Right-of-Way engineering, reports, documents, etc., and that CCTA's quality objectives and goals are satisfied.

### 2.2 Constructability/Biddability Review

Constructability and Biddability Reviews are an essential component of CCTA's Quality Assurance Program and the Project Specific Quality Management Plan. A Constructability Review is an independent, structured, and comprehensive review of construction bid documents to ensure that the work requirements are clear, the documents are coordinated, and that they assist the contractor in bidding, construction, and project administration to result in reduced impacts to the project whether they be through construction change orders, claims or traffic impacts.

A Biddability Review is conducted to examine contract documents to identify errors, omissions and conflicts in plans, specifications, quantities, work items/activities, operational constraints, and appropriate basis of payment.

CCTA will follow the Caltrans' protocols for the timing of constructability reviews during the various phases to reduce CCTA's exposure to risks and allow revisions to the project plans prior to construction contract advertisement.

### 2.3 Independent Cost Estimate (ICE)

An ICE is a documented cost estimate prepared independently for the project sponsor, using the same detailed technical and procurement information to make the project estimate. The ICE is an assessment of what you would expect to pay for the project and is used to validate the project estimate to determine whether it is accurate and reasonable. The ICE is based on a reliable source, such as paid historical prices, review of current pricing from comparable projects, or market surveys and may range from a simple budgetary estimate to a final project bid estimate, based on inspection of the product, review of drawings or specifications, and prior procurement data.